QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days)	6 set /100-150 cum	154.08	6	6

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-04-22

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	15-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 13-05-22

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	15-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Date: 18-04-22

Lab ID	:	**CP-2022-05-06-03**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-04-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-06-03** **Date: 18-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.25	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-06-03** **Date: 18-04-22**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division

Agency : M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064

Customer Reference : BBMP-/EE/BTP/WO/04/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-04-22

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 14-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-06-03** **Date: 18-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 18-04-22

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	14-04-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Date: 18-04-22

Lab ID : CP-2022-05-06-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST RESULTS OF STEEL

Date: 18-04-22

Lab ID	:	**CP-2022-05-06-03**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	15-04-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 29-04-22

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-22
Sample Type /Size	:	Precast Cover Slab(100 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	25/04/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 29-04-22

Lab ID	:	**CP-2022-05-06-03**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-04-22
Sample Type /Size	:	Precast Cover Slab(230mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	25/04/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.48	230.45	2.345	17781	399.5	22.5	20.9	26.1
2	Cover Slab-2	150.54	230.54	2.389	17796	420.5	23.6	22.0	27.5
3	Cover Slab-3	150.62	230.58	2.365	17814	400.5	22.5	20.9	26.1

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2022

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Concrete Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	151.19 X 151.91 X 149.95	22967	8.204	421.1	18.3	18.5
2	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	150.16 X 149.75 X 149.68	22487	8.271	420.4	18.7	
3	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	149.46 X 149.28 X 149.01	22312	8.633	408.8	18.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Sig.....R KARTHIK RECHAN
Date.....
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/05/2022

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Concrete Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	149.17 X 150.35 X 149.51	22428	8.484	522.3	23.3	23.1
2	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	151.78 X 149.65 X 149.26	22714	8.259	509.5	22.4	
3	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	151.42 X 150.59 X 149.96	22803	8.372	536.1	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2022

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Concrete Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	151.34 X 151.33 X 150.72	22902	8.394	418.0	18.3	18.5
2	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	151.55 X 151.29 X 151.17	22928	8.151	433.6	18.9	
3	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	150.46 X 150.45 X 151.93	22636	8.826	417.6	18.4	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/05/2022

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Concrete Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	150.28 X 151.01 X 150.20	22695	8.671	525.0	23.1	22.8
2	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	150.50 X 151.48 X 150.80	22797	8.765	510.8	22.4	
3	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	149.50 X 151.34 X 150.38	22626	8.841	520.5	23.0	

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Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Concrete Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	150.73 X 151.42 X 150.68	22824	9.011	411.4	18.0	18.3
2	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	150.15 X 149.70 X 149.98	22477	8.795	423.7	18.8	
3	Drain Concrete Bottom Raft	M20	19/04/2022	26/04/2022	150.46 X 150.73 X 151.88	22678	8.858	408.8	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-06-03** **Date: 17/05/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Concrete Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	149.13 X 149.35 X 151.06	22272	8.593	513.5	23.1	23.0
2	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	151.98 X 151.10 X 151.16	22963	9.069	508.7	22.2	
3	Drain Concrete Bottom Raft	M20	19/04/2022	17/05/2022	149.05 X 150.80 X 149.26	22477	8.878	537.2	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/04/2022

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Customer ID	:	Drain Concrete Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	149.30 X 149.30 X 149.53	22290	8.608	420.1	18.8	18.8
2	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	150.43 X 150.44 X 149.11	22631	8.755	417.8	18.5	
3	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	150.48 X 149.60 X 151.12	22512	8.811	427.5	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/05/2022

Lab ID	:	**CP-2022-05-06-03**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Customer ID	:	Drain Concrete Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	149.90 X 149.13 X 151.45	22354	8.543	521.2	23.3	23.1
2	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	151.68 X 149.24 X 151.41	22637	8.542	510.8	22.6	
3	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	151.55 X 151.46 X 149.83	22953	9.092	535.2	23.3	

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Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Customer ID	:	Drain Concrete Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	151.52 X 150.46 X 149.62	22798	8.639	426.6	18.7	18.4
2	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	151.10 X 149.22 X 151.68	22547	8.242	410.3	18.2	
3	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	149.91 X 150.13 X 151.92	22506	8.973	411.2	18.3	

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Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Customer ID	:	Drain Concrete Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	151.00 X 150.91 X 150.36	22788	8.473	534.5	23.5	23.2
2	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	149.49 X 151.98 X 149.15	22720	8.906	517.8	22.8	
3	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	151.37 X 149.68 X 149.12	22658	8.871	530.3	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/04/2022

Lab ID	:	CP-2022-05-06-03
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division
Agency	:	M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064
Customer's Reference	:	BBMP-/EE/BTP/WO/04/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Customer ID	:	Drain Concrete Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	151.71 X 149.74 X 149.48	22717	8.894	416.6	18.3	18.6
2	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	149.37 X 150.27 X 149.41	22446	9.082	425.2	18.9	
3	Drain Concrete Side Wall	M20	20/04/2022	27/04/2022	149.33 X 150.95 X 151.74	22542	8.741	415.9	18.4	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/05/2022

Lab ID : **CP-2022-05-06-03**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kattigenahalli and Surrounding Areas in Ward No. 05 Byatarayanapura Sub Division

Agency : M/S. K R Constructions, Prop. C Mahesh, No:286, 7TH B Cross, Jakkur, Layout, Bangalore-560064

Customer's Reference : BBMP-/EE/BTP/WO/04/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-04-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	149.27 X 150.73 X 149.86	22499	8.322	531.8	23.6	23.0
2	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	150.83 X 151.82 X 150.07	22899	8.943	511.9	22.4	
3	Drain Concrete Side Wall	M20	20/04/2022	18/05/2022	149.89 X 150.69 X 149.29	22586	8.567	523.0	23.2	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date.....

R KARTHIK RECHAN
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****End of Report****

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